

# Notice of Allowability

Application No.

10/812,037

Examiner

Timothy J. Kugel

Applicant(s)

SAITO, ATSUSHI

Art Unit

1712

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed with an RCE filed 30 January 2007.
2. ☒ The allowed claim(s) is/are 3-5, 18 and 19.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

### **DETAILED ACTION**

1. Claims 3-5, 18 and 19 are pending as amended on 30 January 2007, claims 1, 2 and 6-17 being cancelled.

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 30 January 2007 has been entered.

3. The text of those sections of Title 35, US Code not included in this action can be found in a prior Office action.

### ***Response to Amendment***

4. Applicant's amendment, filed 30 January 2007, with respect to limiting the first, second and third substances to amines, imidazoles, acid anhydrides, phenols and mixtures thereof or to uncured epoxy resin—that is, striking the limitation 'any substance' as a potential first, second or third substance—has been fully considered and is corrective.

The rejection of claims 3-5, 18 and 19 under 35 USC 112 first paragraph has been withdrawn.

5. Applicant's amendment, filed 30 January 2007, with respect to requiring a plurality of microcapsules to be adhered to the surface of the conductive particles has been fully considered and overcomes the following:

The rejection of claims 3 and 4 under 35 USC 102(b) as being anticipated by Date has been withdrawn.

The rejection of claims 3 and 5 under 35 USC 102(b) as being anticipated by Matsui has been withdrawn.

#### **EXAMINER'S AMENDMENT**

6. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Please change the title to: "Anisotropically Conductive Adhesive Comprising Crushable Microcapsules Adhered to a Surface of Conductive Particles."

Please amend the claims as follows:

- 1. – 2.       Cancelled
- 3. – 4.       As amended 30 January 2007

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5. (Currently Amended) The anisotropically conductive adhesive according to claim 3 wherein the capsule walls of the crushable microcapsules comprising comprises a thermoplastic resin.

6. – 17. (Cancelled)

18. As amended 30 January 2007

19. (Currently Amended) The anisotropically conductive adhesive according to claim 4, wherein the second ~~substrate~~ substance contains a third substance that is curable by a reaction with the second substance, the reaction occurring by heating, the third substance is selected from the group consisting of amines, imidazoles, acid anhydrides, phenols and mixtures thereof.

***Allowable Subject Matter***

7. Claims 3-5, 18 and 19 are allowed.

The following is an examiner's statement of reasons for allowance: Neither Date nor Matsui, the closest prior art, teaches a composition wherein conductive particles have a plurality of microcapsules adhered to a surface thereof and wherein the particles are dispersed in an uncured epoxy and the microcapsules comprise an amine, imidazole, acid anhydride, phenol or mixture thereof or wherein the particles are dispersed in an amine, imidazole, acid anhydride, phenol or mixture thereof and the microcapsules comprise an uncured epoxy.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

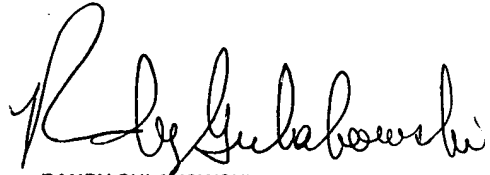
### ***Conclusion***

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy J. Kugel whose telephone number is (571) 272-1460. The examiner can normally be reached 6:00 AM – 4:30 PM Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TJK  
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RANDY GULAKOWSKI  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 1700